

LAB - 8

NAME: Sreenidhi Ganachari

REGNO: 19BCE7230

LAB: CSE4002 Mobile Application Development LAB

1. Design an app that creates dynamic adding and removing of chip buttons.

MainActivity.java

```
package com.example.chipbutton_19bce7230;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import com.google.android.material.chip.Chip;

import com.google.android.material.chip.ChipGroup;

public class MainActivity extends AppCompatActivity {

    ChipGroup chipGroup;

    Button btnAddChip;

    int chipNumber=0;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);
```

```

chipGroup=findViewById(R.id.chipGroup);

btnAddChip=findViewById(R.id.button);

btnAddChip.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        Chip chip=new Chip(MainActivity.this);

        chip.setText("chip"+chipNumber);

        chip.setCheckable(true);

        chip.setCloseIconEnabled(true);

        chipGroup.addView(chip);

        chip.setOnCloseIconClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                chipGroup.removeView(chip);

            }

        });

    }

});

}

}

```

XML Code

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<androidx.constraintlayout.widget.ConstraintLayout  
xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
    xmlns:tools="http://schemas.android.com/tools"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    tools:context=".MainActivity">
```

```
<Button
```

```
    android:id="@+id/button"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginStart="160dp"
```

```
    android:layout_marginBottom="236dp"
```

```
    android:text="ADD"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toBottomOf="@+id/chipGroup" />
```

```
<com.google.android.material.chip.ChipGroup
```

```
    android:id="@+id/chipGroup"
```

```
    android:layout_width="251dp"
```

```
    android:layout_height="0dp"
```

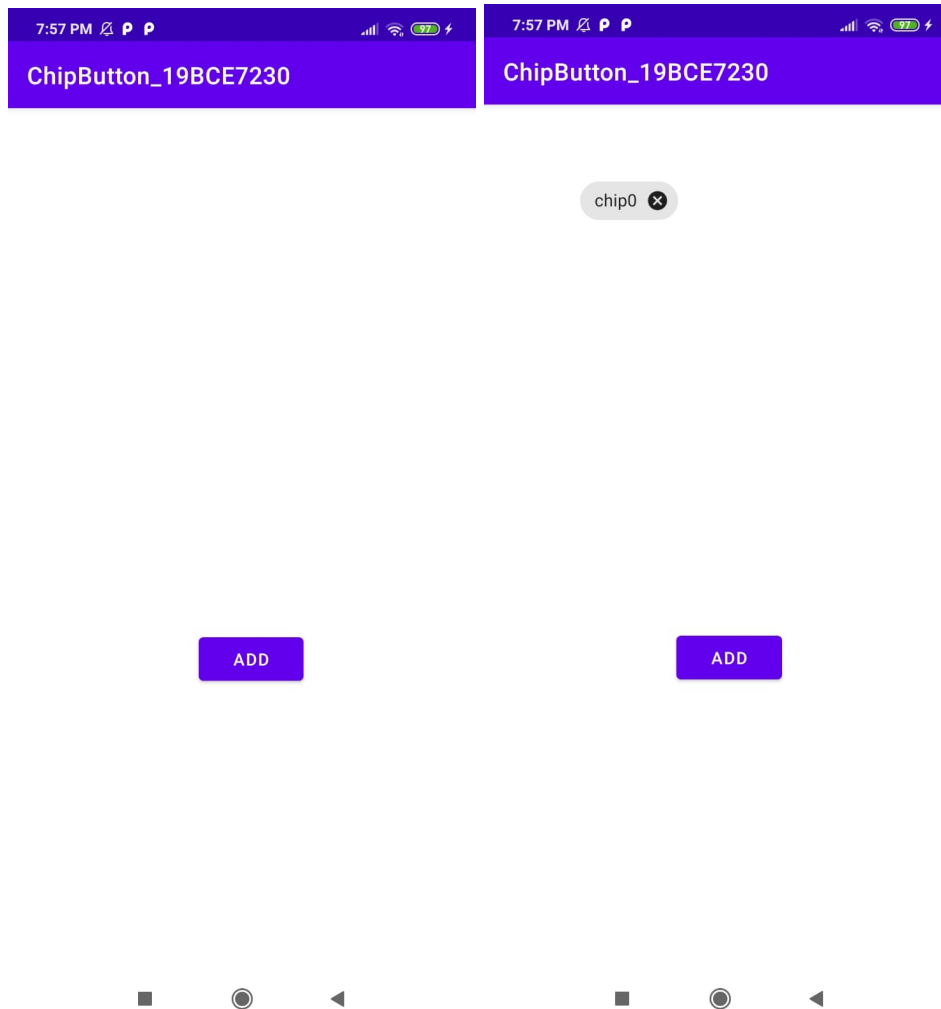
```
    android:layout_marginStart="80dp"
```

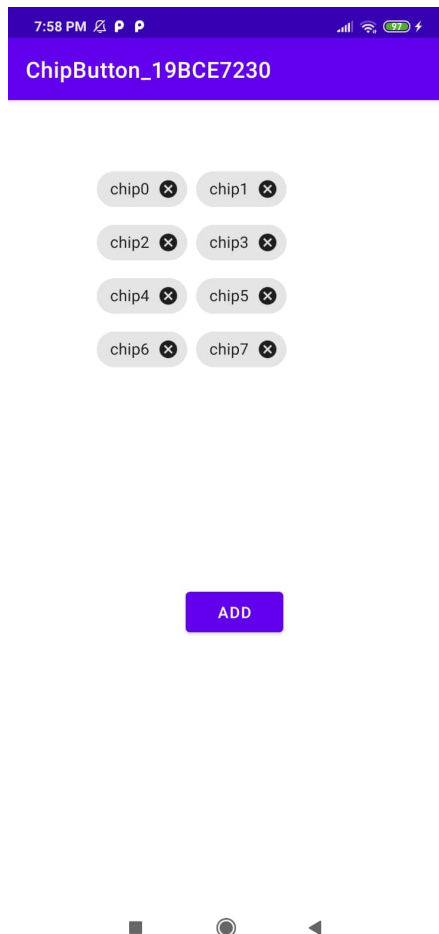
```
    android:layout_marginTop="56dp"
```

```
    android:layout_marginBottom="122dp"
```

```
app:layout_constraintBottom_toTopOf="@+id/button"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent">  
  
</com.google.android.material.chip.ChipGroup>
```

OUTPUT -





2. Design an App for the Gmail header. Whenever the user enters an email in the “To” section create a chip button with photo and the email. It should also contain close button to remove the chip button.

MainActivity.java

```
package com.example.gmail_19bce7230;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import com.google.android.material.chip.Chip;
```

```

import com.google.android.material.chip.ChipGroup;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {
    Button b1;
    EditText et1, et2, et3, et4;
    private ChipGroup c;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        b1 = findViewById(R.id.b);
        et1 = findViewById(R.id.from);
        et2 = findViewById(R.id.to);
        et3 = findViewById(R.id.msg);
        et4 = findViewById(R.id.subject);
        c = findViewById(R.id.chipgr);

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Chip chip = new Chip(MainActivity.this);
                c.addView(chip);
                chip.setText(et2.getText());
                chip.setChipIcon(getDrawable(R.drawable.image2));
                et2.setText(null);
                chip.setCloseIconVisible(true);

                chip.setOnCloseIconClickListener(new View.OnClickListener() {
                    @Override
                    public void onClick(View v) {
                        c.removeView(chip);
                    }
                });
            }
        });
    }
}

```

XML Code

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"

```

```
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
```

```
<EditText
    android:id="@+id/from"
    android:layout_width="281dp"
    android:layout_height="48dp"
    android:layout_marginTop="120dp"
    android:layout_marginEnd="84dp"
    android:ems="10"
    android:hint="From"
    android:inputType="textEmailAddress"
    android:textSize="16sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    tools:ignore="TouchTargetSizeCheck" />
```

```
<EditText
    android:id="@+id/to"
    android:layout_width="281dp"
    android:layout_height="48dp"
    android:layout_marginTop="212dp"
    android:layout_marginEnd="80dp"
    android:ems="10"
    android:hint="To"
    android:inputType="textEmailAddress"
    android:textSize="16sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    tools:ignore="TouchTargetSizeCheck" />
```

```
<EditText
    android:id="@+id/subject"
    android:layout_width="281dp"
    android:layout_height="48dp"

    android:layout_marginBottom="388dp"
    android:ems="10"
    android:hint="Subject"
    android:inputType="textPersonName"
    android:textSize="16sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.384"
    app:layout_constraintStart_toStartOf="parent"
    tools:ignore="TouchTargetSizeCheck" />
```

```

<EditText
    android:id="@+id/msg"
    android:layout_width="343dp"
    android:layout_height="0dp"
    android:layout_marginEnd="40dp"
    android:layout_marginBottom="324dp"
    android:ems="10"
    android:hint="Message"
    android:inputType="textMultiLine"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />

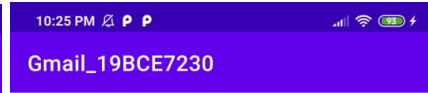
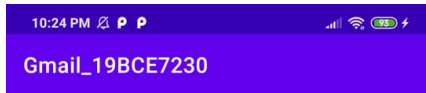
<Button
    android:id="@+id/b"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="204dp"
    android:text="Enter"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.461"
    app:layout_constraintStart_toStartOf="parent" />

<com.google.android.material.chip.ChipGroup
    android:id="@+id/chipgr"
    android:layout_width="281dp"
    android:layout_height="48dp"
    android:layout_marginStart="16dp"
    android:layout_marginEnd="16dp"
    android:layout_marginBottom="288dp"
    android:background="@color/white"
    app:layout_constraintBottom_toBottomOf="@+id/b"
    app:layout_constraintEnd_toEndOf="@+id/to"
    app:layout_constraintStart_toStartOf="@+id/to">

    </com.google.android.material.chip.ChipGroup>
</androidx.constraintlayout.widget.ConstraintLayout>

```

OUTPUT -



From _____

To _____


Subject _____

Message _____

ENTER



sreenidhi@gmail.com _____

 sri@hotmail.com ✕ _____

To _____

MAD Lab 8 _____

Message _____

ENTER

